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FIG 1

SMEZ	-----	-----	LEVDNNSLR	NIYSTIVYBY	SDTVIDEKTS	30
SMEZ-2	-----	-----	LEVDNNSLR	NIYSTIVYBY	SDIVIDEKTS	30
SPE-J	-----	-----	-----	-----	-----	
SPE-C	-----	-----	DSKK	DISNVKSDLL	YAVTITPYDY	34
SPE-G	-----	-----	DE	NLKDLKRSR	FAYNITPCDY	32
SPE-H	-----	-----	NSYN	TTNRHMLESL	YKHSNLEIA	34
SEA	SEKSEEINE	KDLAKSELO	GAALGLKQI	YYNEKAKTE	NKESHDQFLQ	49

 $\alpha 2$ $\beta 1$

SMEZ	ENLVTKKLDV	EDARFFINS	EMDEYAAND	KDGRILAVES	VEFDWNYLSE	80
SMEZ-2	ENLVTKKLDV	EDARFFINS	EMDEYAAND	KTGRILAVES	VEFDWNYLSK	80
SPE-J	-----	-----	-----	-----	ME...YIFT	6
SPE-C	ETLNIDTQKY	EG.KYYISS	EMSYEASQRE	KRDDPVEVEG	DE...YILN	79
SPE-G	NSIHINTKQK	RSECILYVDS	IVSLGITDQF	IKGRVDEVEG	DE...YNFS	78
SPE-H	TS.HML..KY	.SVRDNLSV	FFEKDWISQE	FKDKVLIYA	LSAQEVCE..	78
SEA	ETILFKGFFT	NHSWYNDLLV	DFDSKDIVDK	YKGRVILYG	AYYGYQCAGG	99

 $\beta 2$ $\beta 3$ $\alpha 3$ $\beta 4$

SMEZ	GKVIATV	GMPPYQEE..	PMSKNDEV	WINRRQIPVE	YFQISTDETT	127
SMEZ-2	GKVTATV	GMPPYQKT..	SILKNDEV	WINGKQISVE	YFQISTDETT	127
SPE-J	RYDVYVY	GVPSVNSN	SENSRIVG	LIDGVQOKTL	DEPIKIDRPI	54
SPE-C	SHTGEY	GMPPAQN.N	KVNBLLG	FISGESQQNL	NKKILENDI	126
SPE-G	PPYVDN	GVKRSNQG	NKSLQFVG	NQDGETYLE	SEAVRIKKQ	126
SPE-H	CPGKRVEAF	GMULTNSEK	.KEIRVEVEV	WDKSKQ..E	PMF TVNRPK	124
SEA	TPNKTACM	GVLEHDNNRL	TEENRVEVEV	WLD KQNTVE	LETVKTTRKN	149

 $\beta 5$ $\beta 6$ $\beta 7$ $\beta 8$

SMEZ	VTAQEDIDRV	RFLISQHQ	SGSSYKSG	KIVFHANDNS	DKYSFIDAEYV	177
SMEZ-2	VTAQEDIDRV	RFLIAQHQL	SGSSYKSG	KIVFHANDNS	DKYSFIDAEYV	177
SPE-J	FTIQEDIDRI	QYIMQTYKI	DPNSPINKG	QPEIANGNK	.HESFNLYDA	103
SPE-C	VTIQEDIDRI	RFLMDNYKI	DATSPYVSG	RIEIGTRDGK	.HEQIDMADS	175
SPE-G	FTIQEDIDRI	RFLMEKYNI	DSESPYVSG	SIFLATKDSK	.HYEVDIAENK	175
SPE-H	VTAQEDIDRV	RFLIKKYDI	NNR..EQKY	SKGTVALDLN	SGKDIVFDLY	172
SEA	VTVQELDLQA	RYIQEKNL	NSOVFDGKV	QRGLIVFHTS	TEPSVNYDLF	199

 $\beta 8$ $\alpha 4$ $\beta 9$ $\beta 10$

SMEZ	..GYRDKES	ERVYK	MSF	NIDKIGHLD	EIDS	209
SMEZ-2	..GYRDKES	ERVYK	MSF	NIDKIGHLD	EIDS	209
SPE-J	TSS.STRSD	ERKYK	RTI	KMKDFSHFD	YVWTK	137
SPE-C	PNE.GTRSD	ERKYK	RTI	KMKNFSHFD	YVWTK	208
SPE-G	DDKLLSRDS	ERKYK	RTI	NSEESHF	YVWTK	210
SPE-H	YFGNGDFNSM	LRIYSN	ERT	DSTQF.HVDV	SIS	204
SEA	GAQQQNSNTL	LRIYSN	RTI	SENH.HID	YVYTS	233

 $\alpha 5$ $\beta 11$ $\beta 12$

[illegible]

SPE-G

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FIG 3

10 30 50
ATGAAAACAAACATTTTGACAATTATCATATTATCATGTGTTTTAGCTATGGAAGTCAA
M K T N I L T I I I L S C V F S Y G S Q

70 90 110
TTAGCTTATGCAGATGAAAATTTAAAGATTTAAAAAGAAGTTTAAGATTTGCCTATAAT
L A Y A D E N L K D L K R S L R F A Y N

130 150 170
ATTACCCCATGCGATTATGAAATGTAGAAATTGCATTTGTTACTACAAATAGCATAACAT
I T P C D Y E N V E I A F V T T N S I H

190 210 230
ATTAATACTAAACAAAAAGATCGGAATGTATTCTTTATGTTGATTCTATTGTATCTTTA
I N T K Q K R S E C I L Y V D S I V S L

250 270 290
GGCATTACTGATCAGTTTATAAAAGGGGATAAGGTGATGTTTTTGGTCTCCCTTATAAT
G I T D Q F I K G D K V D V F G L P Y N

310 330 350
TTTTCCCCACCTTATGTAGATAATATTTATGGTGGTATTGTAAAACATTGGAATCAAGGA
F S P P Y V D N I Y G G I V K H S N Q G

370 390 410
AATAAATCATTACAGTTTGTAGGAATTTTAAATCAAGATGGGAAAGAACTTATTGCCC
N K S L Q F V G I L N Q D G K E T Y L P

430 450 470
TctgAGGCTGTTCGCATAAAAAAGAAACAGTTTACTTTACAGGAATttgATTTTAAAAATA
S E A V R I K K K Q F T L Q E F D F K I

490 510 530
AGAAAATTTCTAATGGAAAAATACAATATCTATGATTGGAATCGCGTTATACATCGGGG
R K F L M E K Y N I Y D S E S R Y T S G

550 570 590
AGCCTTTTCCTTGCTACTAAAGATAGTAAACATTATGAAGTTGATTATTTAATAAGGAT
S L F L A T K D S K H Y E V D L F N K D

610 630 650
GATAAGCTTTTAAGTCGAGACAGTTTCTTTAAAGGTATAAAGATAATAAGATTTTAAAT
D K L L S R D S F F K R Y K D N K I F N

670 690
AGTGAAGAAATTAGTCATTTTGATATCTACTTAAAAACGCACTAG
S E E I S H F D I Y L K T H *

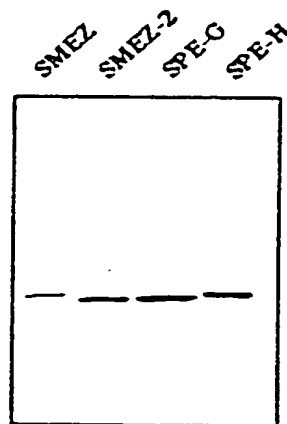
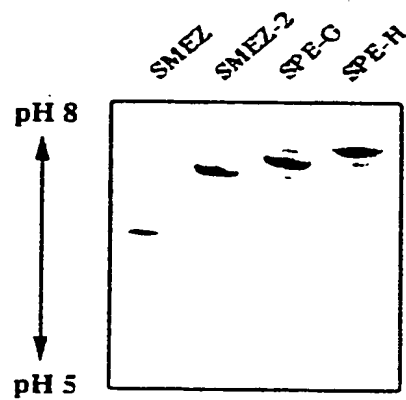
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[illegible]

[illegible]

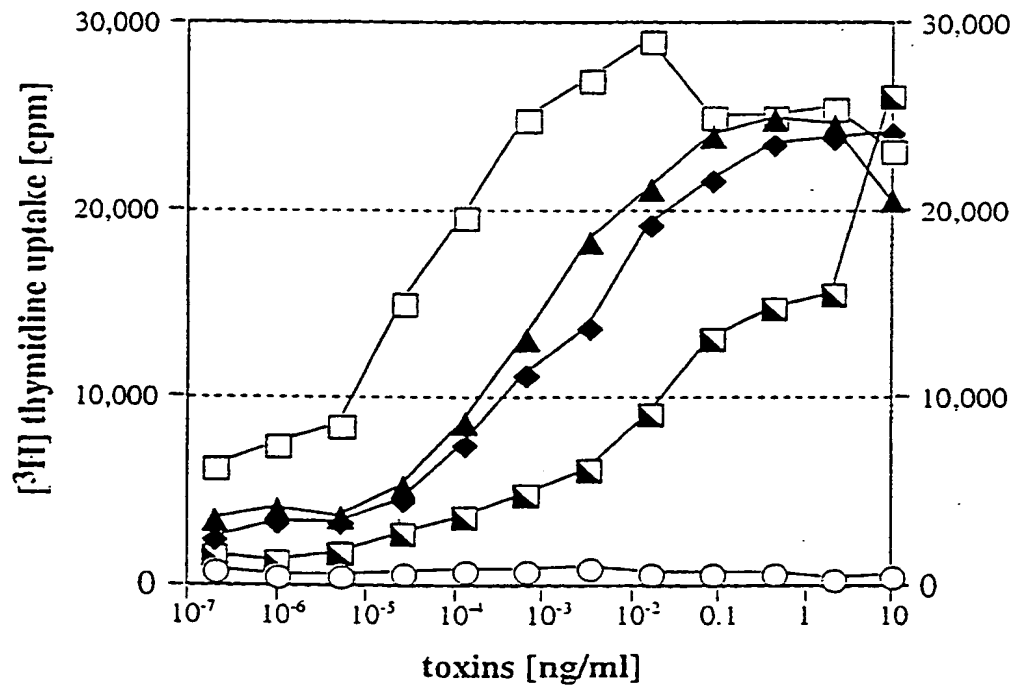
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FIG 6

A**B**

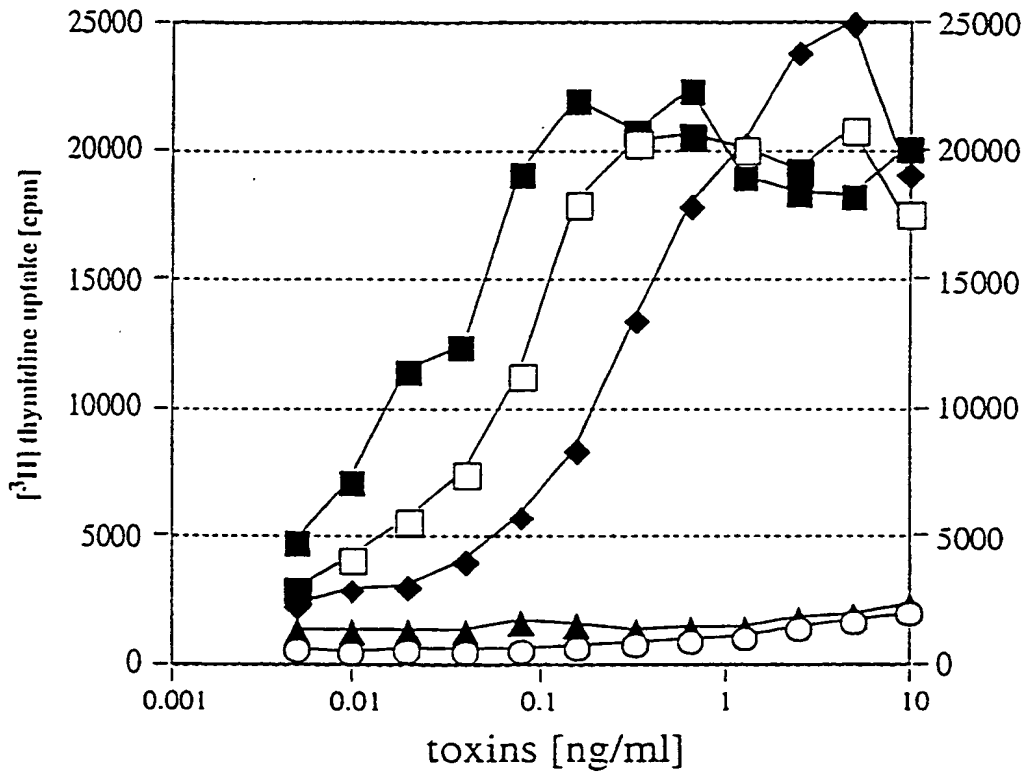
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FIG 7



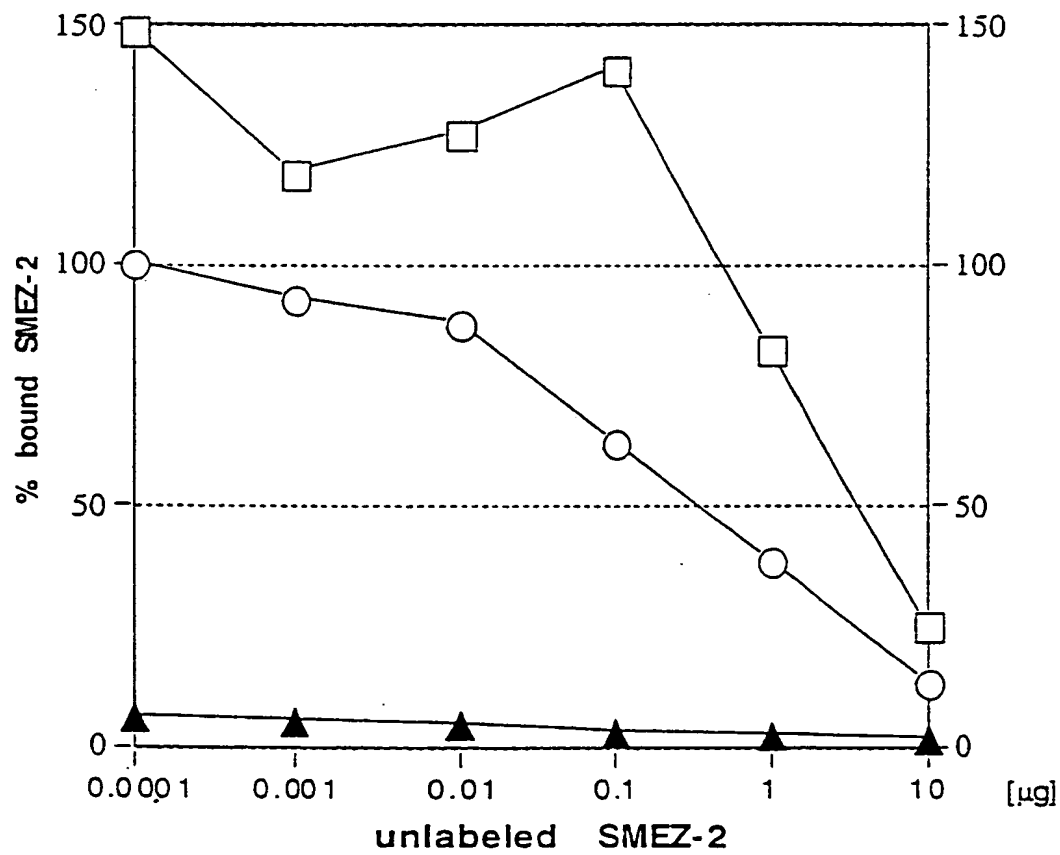
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FIG 8



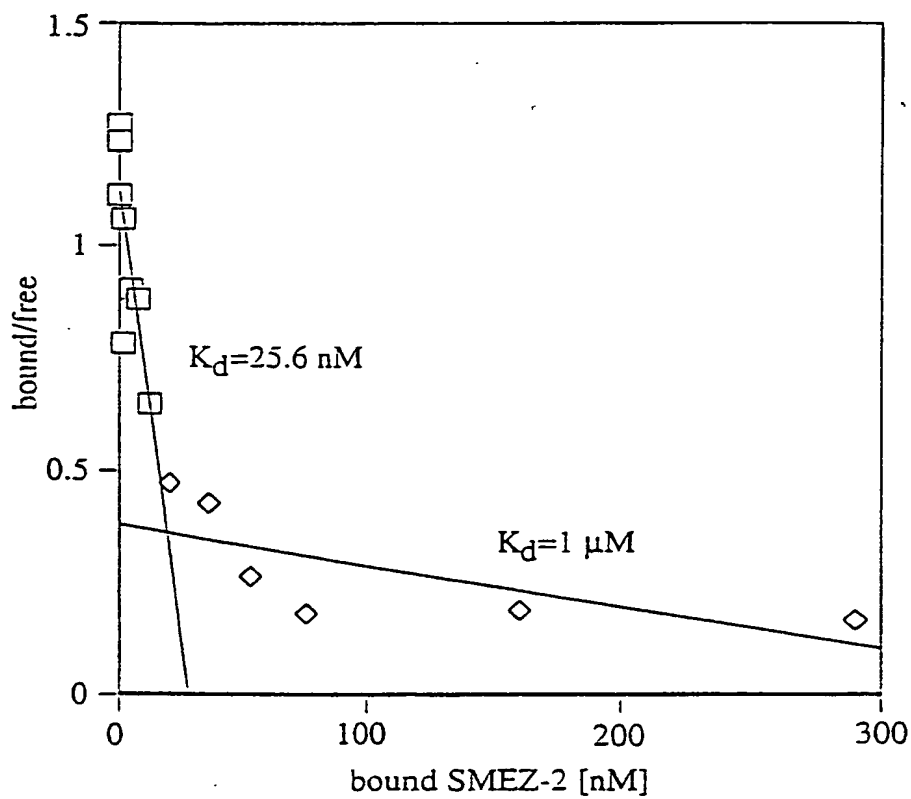
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FIG 9



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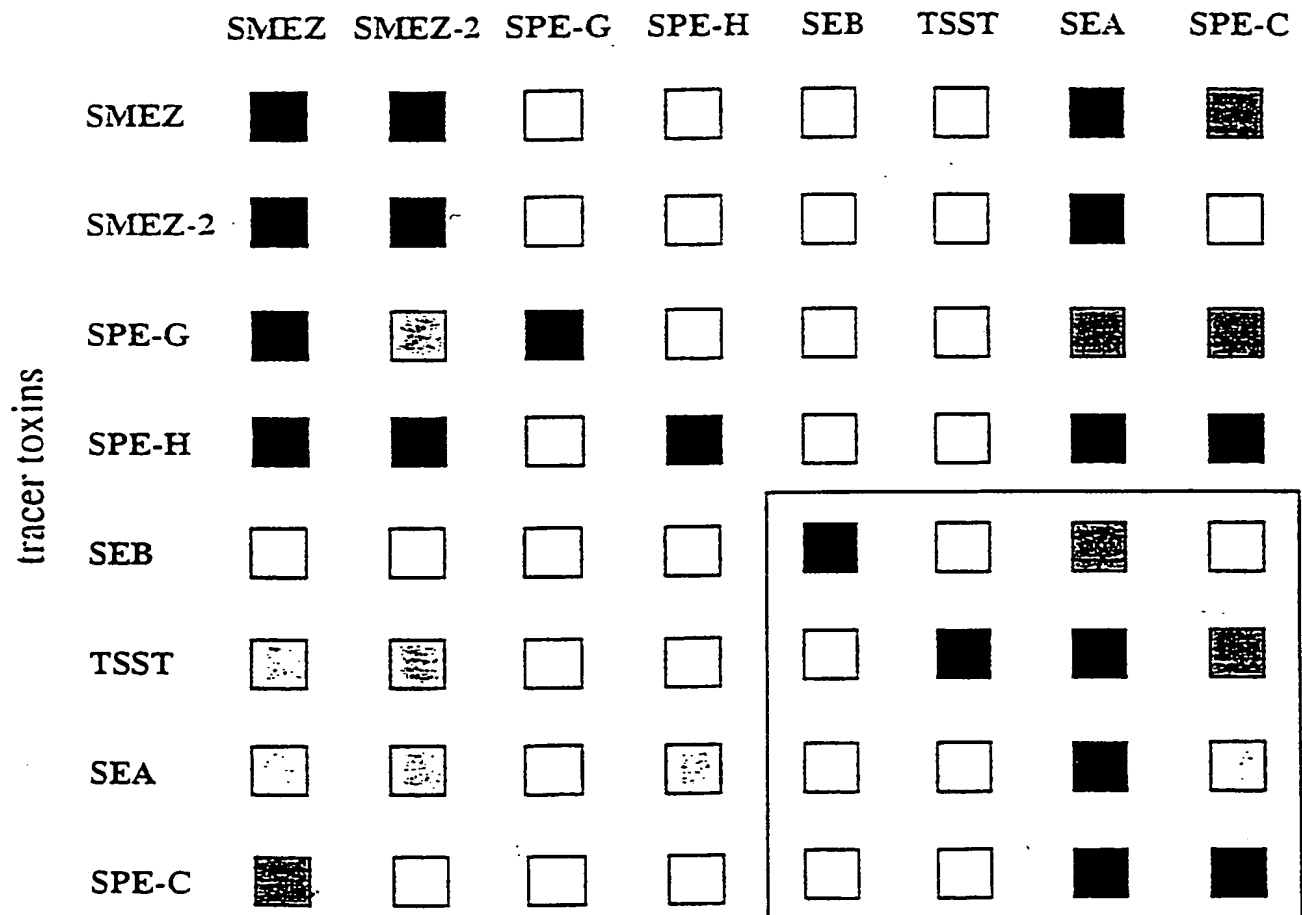
FIG 10



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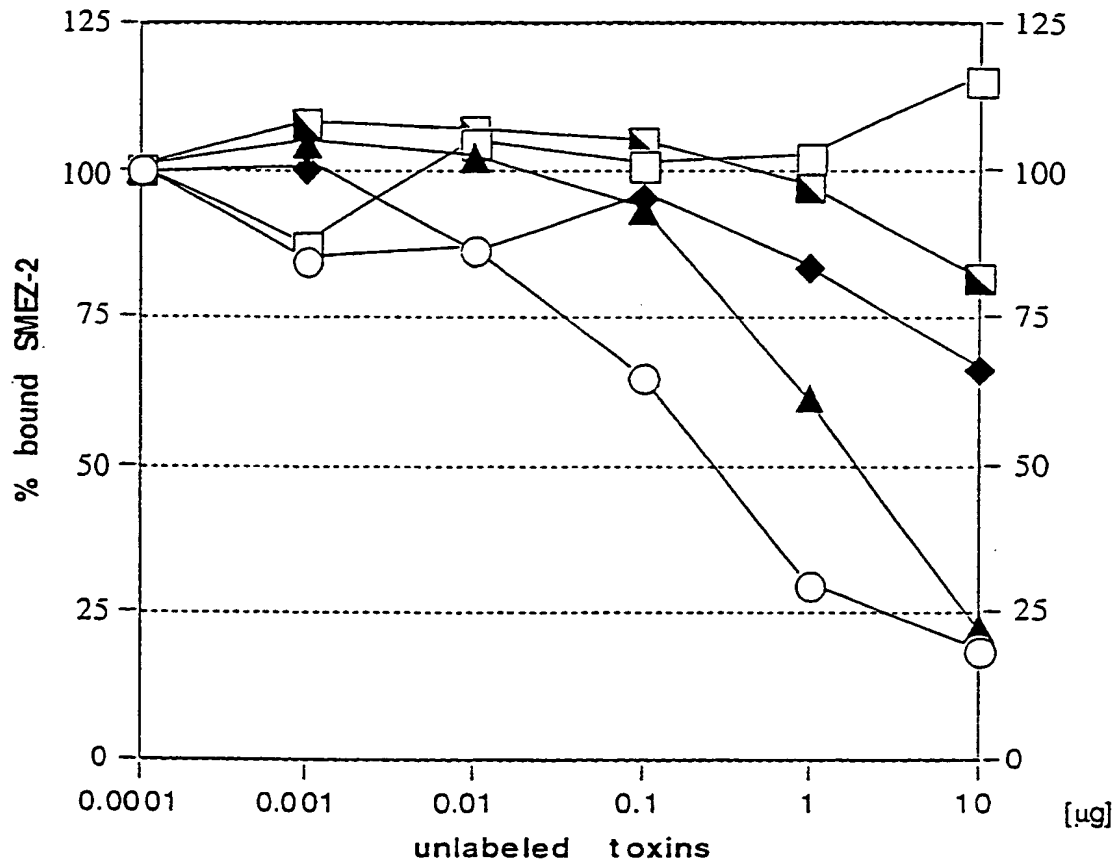
FIG 11

unlabeled toxins



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FIG 12



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FIG 13

